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ABSTRACT

In a method of manufacturing an electron source, a plurality of row wirings, a plurality of column wirings, and a plurality of pairs of conductive films arranged in a matrix by the plurality of row and column wirings, are formed on a substrate, each pair of conductive films being formed through a gap. After then, a row wiring is selected among the plurality of row wirings in the presence of an activation substance source, and a substantially same constant voltage is applied to each of a plurality of pairs of conductive films connected to the selected row wiring, while a predetermined voltage is applied to at least specific pairs of conductive films among a plurality of pairs of conductive films connected to unselected row wirings of the plurality of row wirings.